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**NIEMAN VIDEO DISPLAYS INC.**

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# **Owners Manual**

**Model# 3827**

**27" VGA to SVGA**

**Open Frame Monitor**

**With**

**Digital Controls &  
On Screen Menu**

**For Complete Service manual &  
Schematic-  
Visit [Niemandisplays.com](http://Niemandisplays.com) or  
E-mail [Rick@Niemandisplays.com](mailto:Rick@Niemandisplays.com)**

## **SAFETY PRECAUTIONS Model 3827**

### **1) WARNING**

- a) For continued safety & service, refer all service to a qualified technician.
- b) Do not attempt to modify any circuit.
- c) Disconnect the AC plug from the AC outlet before servicing unit.
- d) Use an isolation transformer for service and repair.
- e) The semiconductors heat sinks and other parts are potential shock hazards when the chassis is in operation.

### **2) SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE.**

- a) When attempting to service the high voltage system, remove the static charge by placing a 10 k $\Omega$  resistor in series with an insulated wire, such as test probe, between the chassis and the anode lead.
- b) The picture tube in this monitor uses integral implosion protection.
- c) Always replace the tube with the same type and number.
- d) Be careful not to lift the picture tube by the neck.
- e) Only handle the picture tube after discharging the high voltage.

### **3) X RADIATION AND HIGH VOLTAGE LIMITS.**

**WARNING:** This product includes critical mechanical and electrical parts which are essential for X-radiation safety. For continued safety, replace critical components only with manufacturers recommended parts. Refer to service literature for critical parts. Refer to service literature for measurement procedure and proper adjustments.

### **4) To prevent fire or shock hazard, DO NOT EXPOSE THIS MONITOR TO RAIN OR MOISTURE.**



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**TECHNICAL SPECIFICATION Model 3827**

<b>CRT (dot pitch)</b>	29" 0.68mm (27" viewable)
<b>Scanning Frequency</b>	Hor. 30-50KHz(TBD) Vert. 50-120Hz
<b>Video Band Width</b>	65MHz(-3db)
<b>Input Signal</b>	Video: Analog 0.7Vp-p Sync.: TTL(positive/ negative)
<b>Signal connector</b>	15 pin D-Sub
<b>Maximum Resolution</b>	1024 X 768 (NI)
<b>User Control</b>	Contrast, Brightness, Rotation, Degauss, H-Size / Phase V-Size / Position E-W Pin / Key Stone Pin-Balance / Parallel
<b>Micro Control</b>	Digital control with OSD feature
<b>Display Area</b>	530 X 395 mm <sup>2</sup> (default)
<b>Power Source</b>	AC100V to 240V, 50 / 60 Hz
<b>Power Consumption</b>	150 Watts maximum
<b>Weight(Kg)</b>	Net.: TBD Gross: TBD
<b>Dimension(W x H x D)</b>	Physical: TBD Package: TBD
<b>Power Management</b>	EPA
<b>Optimum Using Condition</b>	Operating: 0 Deg. C to 40 Deg. C. Storage: -20 Deg. C. to 60 Deg. C. Humidity: 10~ 90%

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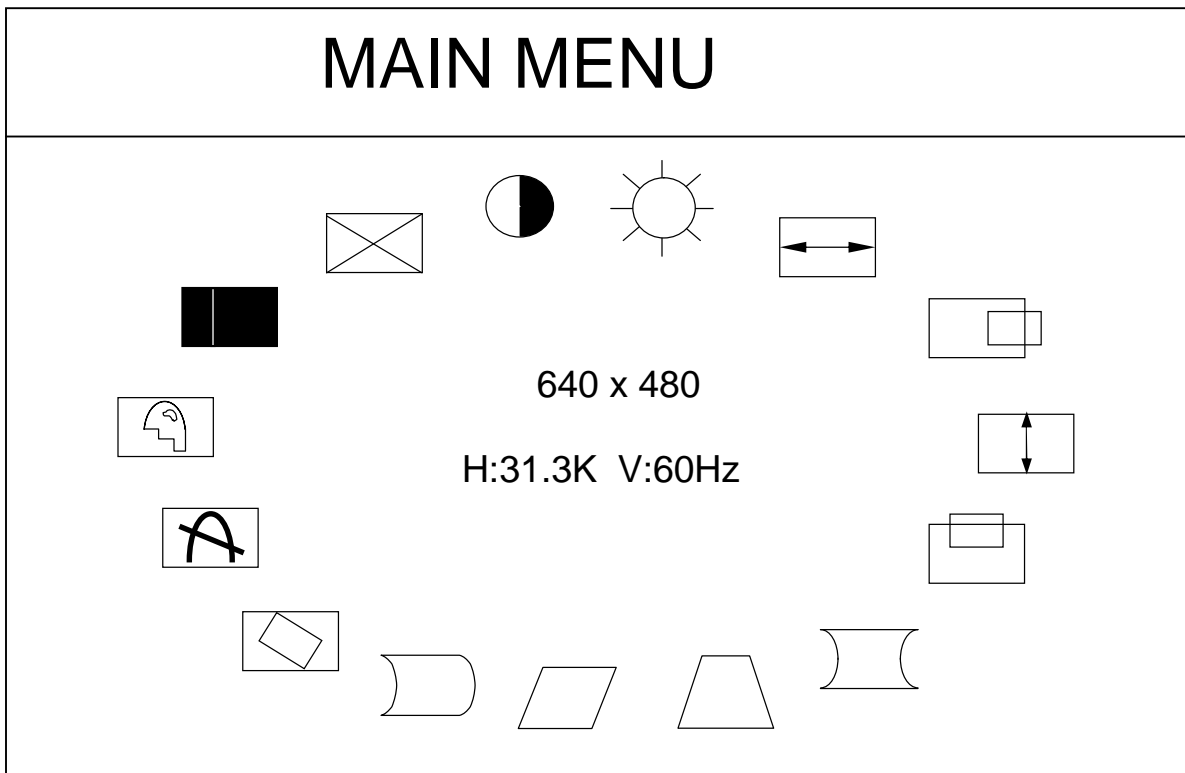
Picture size, position and geometry:

As this monitor has been setup using industry (Vesa standards), it may or may not require adjustments to suit the signal timing of your game. Therefore adjustments of the following controls may be required.

### On Screen Display Icons:

Procedure

- Push and hold down against the “right” and “increase” key to turn the power on to ensure the current mode is set to “factory preset”.
- Select the function by use of the “left” or “right” control buttons.
- Optimize the selected function by use of the “+” or “-“ control buttons.
- When adjustment has been completed select “Exit OSD” to exit and memorize these settings.

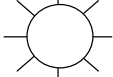


**Function Icon**

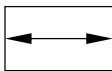
1. Contrast: Picture contrast can be adjusted to stronger or weaken



2. Brightness: Picture can be adjusted to brighter or darker



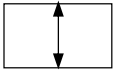
3. H-Size: Horizontal display area can be adjusted wider or narrower



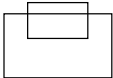
4. H-Position: Screen can be shifted to left or right.



5. V-Size: Vertical area can be adjusted to bigger or smaller



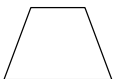
6. V-Position: Screen can be move to up or down.



7. E-W Pin: Side pin can be adjusted to be straight.



8. Key-Stone: Key-stone can be adjusted to be properly.



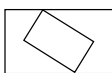
9. Parallelogram: Parallelogram can be adjusted to be straight.



10. Pin-Balance: Pin-Balance can be adjusted to be properly.



11. Rotation: Screen can be adjusted to minimize screen tilt – Note this function is optional



12. Degauss: Use this function to use the internal degausser to manually degauss the CRT.



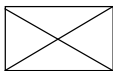
13. Recall: Recall factor preset data



14. RGB Bias: Color temperature can be adjusted to be properly



15. Exit OSD:



**Circuit Block Diagram:**

